Index of Claims

| Application No. | Applicant(s)        |  |
|-----------------|---------------------|--|
| 09/839,463      | WELTERLEN, TRACY J. |  |
| Examiner        | Art Unit            |  |
| Fred Ferris     | 2128                |  |

Rejected Allowed

(Through numeral) Cancelled Restricted

Non-Elected N ı Interference

**Appeal** o Objected

| Clá  | aim      |              |                      |          | Date     | <del></del> |               |          |         | Cla   | aim         |                 |               |        | Date     | е         |          |        |       |          | Cla      | aim      |               |                 | [            | Date     | •         |           |          |           |
|--|----------|--------------|----------------------|----------|----------|-------------|---------------|----------|---------|-------|-------------|-----------------|---------------|--------|----------|-----------|----------|--------|-------|----------|----------|----------|---------------|-----------------|--------------|----------|-----------|-----------|----------|-----------|
|  | -        |              |                      |          |          |             |               |          |         |       | <del></del> |                 |               |        |          |           |          |        |       |          |          | _        |               |                 |              |          |           | Ì         |          |           |
| Final  | Original | 4/11/05      |                      | 1        |          |             |               |          |         | Final | Original    |                 |               |        |          |           |          |        |       | 1        | Final    | Original |               |                 |              |          |           |           |          | ł         |
| iĒ   | ĕ        | 7            |                      |          |          |             |               |          |         | Œ     | , Ę,        |                 |               |        |          |           |          |        |       | į        | Ī        | ij       |               |                 |              |          |           |           |          |           |
|  |          |              |                      |          |          |             |               |          | ]       |       |             |                 |               |        |          |           |          |        |       |          |          |          |               |                 |              |          |           |           |          |           |
| 1  | 1        | =            |                      |          |          |             |               |          | ]       |       | 51          |                 |               |        |          |           |          |        |       |          |          | 101      |               |                 |              |          |           |           |          |           |
| 2  | 2        | =            |                      | L        |          |             |               |          |         |       | 52          |                 |               |        |          |           |          |        |       |          |          | 102      |               |                 |              |          |           |           |          |           |
| 3  | 3        | =            |                      |          |          |             |               |          |         |       | 53          |                 |               |        | Τ        |           |          |        |       |          |          | 103      |               |                 | <br>Π        |          |           |           |          |           |
| 4  | 4        | =            |                      |          | П        |             |               |          | 7       |       | 54          |                 | T             | Т      |          |           |          |        |       |          |          | 104      |               |                 |              |          |           |           |          | $\Box$    |
| 5  | 5        | =            |                      |          | П        |             |               |          | ]       |       | 55          |                 |               |        |          |           |          |        |       |          |          | 105      |               |                 |              |          |           |           |          |           |
| 6  | 6        | =            |                      |          | П        |             |               |          | 7       |       | 56          | П               |               |        |          |           |          |        |       |          |          | 106      |               |                 |              |          |           |           |          |           |
| 7  | 7        | =            |                      |          |          |             |               |          |         |       | 57          |                 |               |        |          |           |          |        | 7     |          |          | 107      |               |                 |              |          |           |           |          |           |
| 8  | 8        | =            |                      |          |          |             |               |          | ]       |       | 58          |                 |               |        |          |           |          |        | ]     |          |          | 108      |               |                 |              |          |           |           |          |           |
| 9  | 9        | =            |                      |          |          |             |               |          | ]:::::[ |       | 59          |                 |               |        |          |           |          |        | ]     |          |          | 109      |               |                 |              |          |           |           |          | $\Box$    |
| 10   | 10       | =            |                      |          |          |             |               |          | 7:::::1 |       | 60          |                 |               |        |          |           |          |        | 7:::: |          |          | 110      |               |                 |              |          |           |           |          |           |
| 11   | 11       | =            |                      |          |          |             |               | $\Box$   |         |       | 61          |                 |               | T      |          | П         | 7        |        | 1     |          |          | 111      |               |                 |              |          |           |           |          | $\neg$    |
| 12   | 12       | =            |                      |          |          | $\Box$      |               | $I^{-}$  | ]       |       | 62          |                 |               |        |          |           |          |        | ]:::: |          |          | 112      |               |                 |              |          |           |           |          | $\neg$    |
| 13   | 13       | =            |                      |          |          |             |               |          | ]       |       | 63          |                 |               |        |          |           |          |        | 1:::  | Г        |          | 113      |               |                 |              |          |           |           |          | $\neg$    |
| 14   | 14       | =            |                      |          |          |             |               |          | ]       |       | 64          |                 |               |        |          |           |          |        | 1:::  |          |          | 114      |               |                 |              |          | $\Box$    |           | $\neg$   | $\neg$    |
| 15   | 15       | =            |                      | Т        |          |             | $\neg$        | 1        | 1       |       | 65          |                 | $\neg$        | $\top$ |          |           |          |        | 1     |          |          | 115      |               |                 |              |          |           |           |          |           |
| 16   | 16       | =            |                      | 1        |          |             |               | $\top$   | 1       |       | 66          | Ħ               |               |        |          |           |          | ĺ      | 7:::: |          |          | 116      |               |                 |              |          |           |           |          |           |
| 17   | 17       | =            |                      | 1        |          |             |               | 1        | 1       |       | 67          |                 |               |        |          |           | $\top$   |        | 1     |          |          | 117      |               | T               |              |          |           | $\neg$    |          |           |
| 18   | 18       | Ξ            |                      |          | Ħ        |             |               | 1        | 7:::::  |       | 68          | П               | $\neg$        | $\top$ |          | П         |          | 1      | 1     |          | ,        | 118      |               |                 | <br>         |          |           |           | ヿ        | $\neg$    |
| 19   | 19       | =            |                      |          |          |             |               | <u> </u> | 1       |       | 69          | П               | $\neg$        | $\top$ |          | П         |          |        | 1     | _        |          | 119      |               |                 |              |          |           | T         | ヿ        |           |
| 20   | 20       | =            |                      |          |          |             |               | 1        | 1       |       | 70          | П               | 一             | $\top$ |          |           |          |        | 1:::: | _        |          | 120      |               |                 |              |          |           | $\exists$ | ヿ        | $\neg$    |
| 21   | 21       | =            |                      | $\vdash$ |          |             |               | $\top$   | 1 1     |       | 71          |                 | $\neg$        | $\top$ |          |           |          | 1      | 1:::  |          |          | 121      |               |                 |              |          |           | $\exists$ | 寸        | $\neg$    |
| 22   | 22       | =            |                      |          | $\Box$   | T           | 十             | $\top$   | 1       |       | 72          |                 | _             |        |          | H         | $\neg$   | $\top$ | 1     |          |          | 122      |               |                 | <br>·        |          |           |           |          |           |
| 23   | 23       | =            |                      | Т        |          |             | $\neg \vdash$ | 1        | T:::::  |       | 73          |                 | _             | 1      |          | П         | 一        | 1      | 1     |          |          | 123      |               |                 | <br>         | _        |           | $\neg$    | $\neg$   | $\neg$    |
|  | 24       |              |                      | T        | $\Box$   |             |               | 1        | T.::::: |       | 74          |                 |               |        |          | П         |          |        | 1     |          |          | 124      |               |                 | <br>         |          |           | $\neg$    | 寸        | $\neg$    |
|  | 25       |              |                      | T-       |          |             |               |          | 1:::::  |       | 75          |                 |               |        |          |           |          | $\top$ | 7     |          |          | 125      |               |                 | <br>         |          |           | $\exists$ | 寸        | $\neg$    |
|  | 26       |              |                      | T        |          |             |               |          | 7:::::  |       | 76          |                 | 1             | Ť      |          |           |          | $\top$ | 1     |          |          | 126      | _             |                 | <br>         |          |           |           | ヿ        | $\neg$    |
|  | 27       | <u> </u>     |                      | T        |          | T           | $\neg$        | $\top$   | -       |       | 77          | Ħ               |               |        |          | П         |          |        | 1     |          |          | 127      |               |                 |              |          |           |           |          | $\neg$    |
|  | 28       |              |                      | 1        |          | 1           |               | $\top$   | 1:::::  |       | 78          | Ħ               |               |        | _        |           |          |        | 1     | Н        |          | 128      |               |                 |              |          |           | $\neg$    | _        |           |
|  | 29       |              |                      |          |          |             | _             | 十一       | -       |       | 79          |                 |               |        | T        | Н         |          | $\top$ | 1     |          |          | 129      |               | $\neg$          | <br>-        |          |           | $\neg$    | $\neg$   | $\dashv$  |
|  | 30       |              |                      |          | $\Box$   |             |               | 1        | -       |       | 80          |                 |               |        | 1        | H         |          |        | 1     | H        |          | 130      |               |                 | <br>_        |          |           |           | $\dashv$ | $\neg$    |
|  | 31       |              |                      |          |          | 7           | $\top$        | 1        | 7:::::  |       | 81          |                 |               | 1      | T        | Н         |          |        | 1     | -        |          | 131      |               | $\vdash$        |              |          |           |           | 7        | 7         |
|  | 32       |              |                      |          |          |             |               | 1        | 7       |       | 82          |                 | _             | Ť      |          | H         |          |        | 1     |          | _        | 132      |               | $\neg$          |              |          | $\exists$ |           | $\dashv$ | $\neg$    |
|  | 33       |              |                      | <u> </u> | $\Box$   | _           |               | +        | 1 1     |       | 83          |                 |               | -      | T        | H         | -        |        | 1     |          | _        | 133      |               |                 |              |          |           |           | $\dashv$ |           |
|  | 34       | П            |                      | T        |          | $\dashv$    |               | $\top$   | 1       |       | 84          |                 |               | 1      | T        | H         | $\dashv$ | $\top$ | 1     | -        |          | 134      |               | $\vdash$        | H            | $\vdash$ | $\neg$    |           | 1        | $\dashv$  |
|  | 35       | ļ —          |                      |          |          | $\dashv$    | $\dashv$      | +        | 1       |       | 85          | $\Box$          |               | $\top$ | 1        | H         | $\neg$   | $\top$ | 1     |          | $\neg$   | 135      |               | $\vdash$        | <br>         | $\dashv$ |           |           | $\dashv$ | $\neg$    |
|  | 36       | <b> </b>     | $ \dagger$           |          | $\Box$   | 十           | _             |          | 1       |       | 86          | $\Box$          | $\neg$        |        | +        |           | $\dashv$ | +      | 1     | -        |          | 136      | _             | $\vdash \vdash$ | <br>         | $\vdash$ |           | $\vdash$  | $\dashv$ | $\dashv$  |
|  | 37       | 1            | _                    |          | $\Box$   | $\dashv$    |               | 1        | 1       |       | 87          |                 | _             |        |          |           | $\dashv$ | $\top$ | 1     |          | $\neg$   | 137      | _             | -               | <br>_        |          |           | -         | $\neg$ † | $\exists$ |
|  | 38       |              |                      |          | $\Box$   | $\dashv$    |               | $\top$   | 1       |       | 88          | $\Box$          | _             | _      |          | H         | $\dashv$ | $\top$ | 1     | 1        |          | 138      |               | $\vdash$        |              |          |           | -         | $\dashv$ | $\dashv$  |
|  | 39       |              | $\neg$               |          | 1 1      | $\dashv$    | 一十            | $\top$   | 1       |       | 89          |                 | $\dashv$      | $\top$ | Т        | H         | $\dashv$ | +      | 1     | $\vdash$ | $\dashv$ | 139      |               | $\Box$          | Н            |          |           |           | 寸        | ᅥ         |
|  | 40       | П            |                      | T        | $\Box$   | 十           | -             | 1        | 1       |       | 90          |                 | $\dashv$      | $\top$ | $\vdash$ | $\vdash$  | $\dashv$ | +      | 1     | $\vdash$ | $\neg$   | 140      | $\overline{}$ |                 | Н            | $\dashv$ |           | $\dashv$  | $\dashv$ | $\dashv$  |
|  | 41       | <del> </del> |                      |          | $\Box$   | 1           | _             | +        | 1       |       | 91          | $\vdash$        |               | +-     | 1        | $\vdash$  | $\dashv$ | +      | 1     | $\vdash$ | _        | 141      | $\neg$        | -               | <br>-        | -        | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$  |
|  | 42       | Т            |                      |          | $\Box$   | $\dashv$    | $\dashv$      | $\top$   | 1       |       | 92          |                 | $\overline{}$ | +      |          | $\forall$ | $\dashv$ | +      | 1     | $\vdash$ | -        | 142      |               | $\vdash$        |              | -        |           | +         | $\dashv$ | $\dashv$  |
|  | 43       |              | $\neg \uparrow \neg$ |          |          | $\dashv$    | $\dashv$      | +        | 1 1     |       | 93          | H               |               |        | T        | $\dashv$  |          | +      | 1     | -        |          | 143      |               | $\exists$       |              |          | -         |           | t        |           |
|  | 44       |              | $\neg$               | 1        |          | $\dashv$    | $\top$        | $\top$   | 1       |       | 94          | H               |               | +      | T        | $\dashv$  | $\dashv$ | +      | 1     | -        |          | 144      | -             | -               |              |          | $\dashv$  | $\dashv$  | _        | $\dashv$  |
|  | 45       | М            |                      | t-       |          | $\dashv$    | +             | +        | 1 1     |       | 95          | $\vdash$        |               | +-     | $\vdash$ | H         | +        | +      | 1:::: | -        | -        | 145      | $\dashv$      | $\dashv$        |              |          | $\dashv$  | $\dashv$  | +        | $\dashv$  |
|  | 46       | $\vdash$     | +-                   | t-       | $\vdash$ | $\dashv$    | $\dashv$      | +        | 1       |       | 96          |                 | -+            | +      | $\vdash$ |           | +        | +      | 1:::: | -        |          | 146      | -             | $\dashv$        |              |          | $\dashv$  | $\dashv$  | +        | $\dashv$  |
| $\vdash$   | 47       |              | +                    | 1        | $\vdash$ | $\dashv$    | $\dashv$      | +        |         |       | 97          | ┝╌┤             |               | +      | $\vdash$ | $\vdash$  | +        | +      | 1:::: | -        | -        | 147      | -             | $\dashv$        |              |          | -         | $\dashv$  | $\dashv$ | $\dashv$  |
| $\vdash$   | 48       |              | $\dashv$             | H        | $\vdash$ | $\dashv$    |               | +        |         |       | 98          | $\vdash \vdash$ |               | +      | +-       | -         | +        | +      | 1:::: | -        |          | 148      |               |                 | <br>$\vdash$ |          | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$  |
| <del>                                     </del> | 49       |              | +                    | $\vdash$ | $\vdash$ | $\dashv$    | +             | +        | 1       |       | 99          | ┝┈┤             | $\dashv$      | +      | +-       | $\vdash$  |          | +      | 1:::  | -        |          | 149      |               | -               | <br>$\vdash$ |          |           | -         | $\dashv$ | $\dashv$  |
| $\vdash$   | 50       | -            | -                    | H        | $\vdash$ | $\dashv$    | -             | +        | 1       |       | 100         | $\vdash$        | -+            | -      | 1        | $\dashv$  | +        | +      | 1:::: | -        |          | 150      | $\dashv$      | $\dashv$        | <br>         |          | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$  |
| Щ.   | 50       | L            | 1                    |          | ш        |             |               |          | Jaaiil  |       | 100         |                 |               | L_     | 1        |           |          |        | J:::: | :        |          | 100      |               |                 |              |          |           |           |          |           |